

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number
WO 2004/045770 A1

(51) International Patent Classification⁷: B01L 3/00, (74) Agent: EHRNER & DELMAR PATENTBYRÅ AB; G01N 1/38 Box 103 16, S-100 55 STOCKHOLM (SE).

(21) International Application Number: PCT/SE2003/001796 (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 19 November 2003 (19.11.2003)

(25) Filing Language: English (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data: 0203435-3 20 November 2002 (20.11.2002) SE

(71) Applicant (for all designated States except US): BOULE MEDICAL AB [SE/SE]; Box 42056, S-126 13 Stockholm (SE).

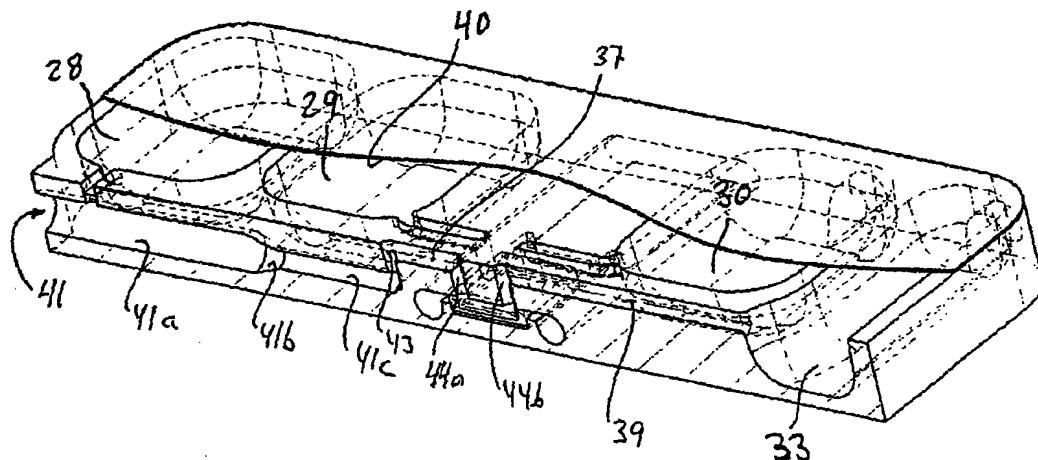
(72) Inventors; and

(75) Inventors/Applicants (for US only): BERNDTSSON, Ingemar [SE/SE]; Borevägen 9, S-191 43 Sollentuna (SE). SVENSSON, Lars [SE/SE]; Blekingevägen 46, S-186 45 Vallentuna (SE). NIKLASON, Lennart [SE/SE]; Egilsvägen 3, S-191 45 Sollentuna (SE).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BLOOD TESTING APPARATUS



(57) **Abstract:** A disposable apparatus for use in blood testing includes a housing (21) having integrated means (41) for receiving a blood sample, a plurality of receptacles (28 - 33) for diluent and diluted sample, and a plurality of channels (34 - 39). Depressions are formed in a surface (27) of the housing to form the receptacles (28 - 33) and the channels. A diaphragm (40) seals the receptacles and the channels relative to said surface (27). When a pressure variation is applied to a portion of the diaphragm sealing a receptacle, liquid is caused to be displaced to or from that receptacle.

WO 2004/045770 A1